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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,688	06/23/2006	Juergen Fischer	P/63777	2115
156 7590 10/26/2007 KIRSCHSTEIN, OTTINGER, ISRAEL & SCHIFFMILLER, P.C. 489 FIFTH AVENUE NEW YORK, NY 10017			EXAMINER STIGLIC, RYAN M	
			ART UNIT 2111	PAPER NUMBER
			MAIL DATE 10/26/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/564,688	Applicant(s) FISCHER ET AL.	
	Examiner Ryan M. Stiglic	Art Unit 2111	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 11-20 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 11-20 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>1/11/2006</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

1. Claims 11-20 are pending and have been examined.
2. Claims 11-20 are rejected.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent No. 5,388,099 (hereinafter Poole).

For claim 11 Poole discloses:

A backplane for establishing a signal connection between a plurality of cards, comprising:

- a support (Fig. 5; col. 5, ll. 20-67) for signaling lines (Fig. 5, REC-1, REC-2, REC-3, TRANS-RIGHT; col. 5, ll. 20-67) and a plurality of card slots located on said support in a predefined sequence for connecting the cards (Fig. 5, 10; col. 5, ll. 20-67), each of the card slots having a plurality of signal-carrier contacts which are located at each card slot according to a same pattern (Fig. 5; col. 20-67; The signal-carrying contacts have the same pattern.), at least two positions of contacts being defined at the card slots such that a

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contact at one of these two positions of each card slot that has a successor in said sequence is connected to a contact at the other position of the successor card slot via the backplane (col. 5, ll. 20-67).

For claim 12 Poole discloses:

The backplane of claim 11, in that the contact at said one position of each card slot having an n -th successor in said sequence, n being an integer and larger than one, is in communicating connection with a contact at an i -th position of an i -th successor for all $i=1, \dots, n$ (Fig. 5; col. 5, ll. 20-67).

For claim 13 Poole discloses:

The backplane of claim 12, in that the contact at said one position of each card slot is in communicating connection with an even number of contacts of other card slots (col. 5, ll. 20-67).

For claim 14 Poole discloses:

The backplane according to claim 11, in that the card slots form one or more groups and are located spatially adjacent within each group, and in that the defined sequence in each group corresponds to the spatial order of the card slots (Fig. 5; col. 5, ll. 20-67).

For claim 15 Poole discloses:

The backplane of claim 14, in that the defined sequence is a cyclical sequence in which a first card slot of the spatial order of a first one of said groups is successor to a last card slot of a last one of said groups (col. 5, ll. 20-67).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 5,388,099 (hereinafter Poole) in view of US Patent Application Publication No. 2002/0083365 (hereinafter Labana).

As noted above Poole discloses a backplane for establishing a signal connection between a plurality of cards, comprising: a support (Fig. 5; col. 5, ll. 20-67) for signaling lines (Fig. 5, REC-1, REC-2, REC-3, TRANS-RIGHT; col. 5, ll. 20-67) and a plurality of card slots located on said support in a predefined sequence for connecting the cards (Fig. 5, 10; col. 5, ll. 20-67), each of the card slots having a plurality of signal-carrier contacts which are located at each card slot according to a same pattern (Fig. 5; col. 20-67; The signal-carrying contacts have the same pattern.), at least two positions of contacts being defined at the card slots such that a contact at one of these two positions of each card slot that has a successor in said sequence is connected to a contact at the other position of the successor card slot via the backplane (col. 5, ll. 20-67).

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While Poole discloses a backplane for interconnecting system components they do not disclose a safety function to protect the integrity of the system and users of said system.

Labana teaches a backplane (Fig. 1+) for connecting various processing modules (Fig. 2, 12).

The backplane and processing modules comprise circuitry to support a protection system

[0053,0058] where upon the detection of a failure of a processing module (e.g. IOB) an adjacent

IOB controls its malfunctioning neighbor by re-routing signals away from the failed device

[0053, 0058, 0063]. Each processing module includes a signal carrying contact that supplies

status information to its neighbor thus allowing the neighboring module to re-route signals and

disable the malfunctioning device.

It would have been obvious to one of ordinary skill in the art at the time of the applicant's

invention to implement the protection system of Labana in the backplane of Poole such that the

failure of a malfunctioning card can be detected, signals re-routed and the faulty device disabled

thus providing a safety function for the computer system.

For claim 16 Poole in view of Labana teach:

An assembly comprising:

- a backplane (Poole; Fig. 5; col. 5, ll. 20-67) and at least first and second cards connected to card slots of said backplane (Poole; Fig. 5, 10; col. 5, ll. 20-67), the first and second cards being connected by a signal line of the backplane (Poole; Fig. 5, 10; col. 5, ll. 20-67), the signal line extending via a contact at a 0-th position of the card slot of the first

card (Poole; Fig. 5, 10; col. 5, ll. 20-67), and the first card controlling a safety function of the second card by said signal line (Labana; [0063]).

For claim 17 Poole in view of Labana teach:

The assembly of claim 16, in that the safety function is an automatic demagnetization of a laser source of the second card (While Poole and Labana do not explicitly teach the demagnetization of a laser source of a second card they do teach of a failure a card and shutting down the faulty card (Labana; [0063])). Therefore one of ordinary skill in the art would clearly recognize that an Input/Output Board (from Labana) (e.g. a fibre optic card) that has malfunctioned will have its signals re-routed and the device shut down, thus demagnetizing a laser associated with the fibre optic transmitter.).

For claim 18 Poole in view of Labana teach:

The assembly of claim 16, in that the second card is adapted to detect if a signal connection to the first card exists via a j-th contact of its slot and to ignore control signals appearing at an i-th contact, where i is greater than j (Poole; col. 5, ll. 20-67; Labana; [0063]).

For claim 19 Poole in view of Labana teach:

The assembly of claim 16, in that a signal connection between an i-th contact of a card slot and an (i+2)-th contact of a succeeding card slot of said defined sequence is interruptible by mounting a card in a card slot located between said two card slots (Poole; col. 5, ll. 20-67).

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For claim 20 Poole in view of Labana teach:

The assembly according to claim 19, in that the first card is connected by said signal line to one contact, referred to as the i -th contact, of the i -th successor of its own card slot and with a contact referred to as the $(-i)$ -th contact, of the i -th predecessor of its own card slot for all $i=1, \dots, n$ (Poole; col. 5, ll. 20-67).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure because it relates to backplane technology and safety functions.

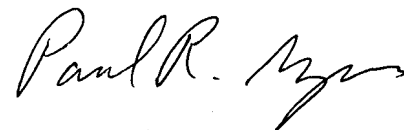
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan M. Stiglic whose telephone number is 571.272.3641. The examiner can normally be reached on Monday - Friday (6:00-3:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on 571.272.3632. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RMS


PAUL R. MYERS
PRIMARY EXAMINER